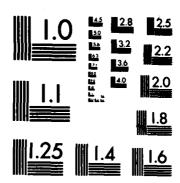
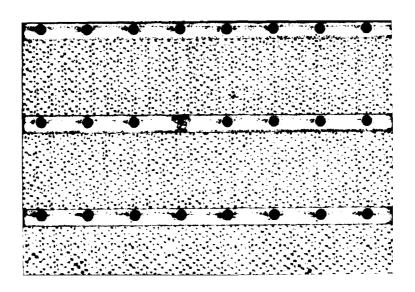
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A





FLEET MOORING LEG
DESIGN PROGRAM DOCUMENTATION
Volume 2
USER DOCUMENTATION

FPO-1-82-(33)

December 1982

General Distribution

Performed for
Ocean Engineering and Construction Project Office
Chesapeake Division
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Under
Contract N62477-81-C-0025

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## FLEET MOORING LEG DESIGN PROGRAM DOCUMENTATION Volume 2 USER DOCUMENTATION

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SLACK SOLUTION					
Simple Leg					
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$R_{ToT}$ , $Q_R$	8-12	*	*	¥	×
XTOT, ZTOT	13-16	*	*	*	¥
Spider Plate	•				
$H$ , $\mathcal{P}_{H}$	32-33	38	34-35	36-37	39-40
RTOT, PR	41-42	*	*	*	*
XTOT, ZTOT	43-44	*	*	*	*
Equalizer					
E <i>quali</i> jer H, Q <sub>H</sub>	45-46	51	47-48	49-50	52-53
$R_{ToT}, \varphi_R$	54-55	*	*	*	*
$x_{Tot}$ , $z_{Tot}$	56-57	* .	. #	*	*
TAUT SOLUTION					
Simple Leg					
'?(H,X)	58-62	*	63-64	65-66	H
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PROGRAM FLOWCH	ARTS				
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GOS Version 4 Level 02 (SMLRTL)

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\*16-45-00

#SYSTAT

System Status of GOS Version 4 Level 02 (SMLRTL)

December 2, 1982 16:45. 4

Devices: SYS\*,KBB,DC,JOY,DKB,DK1 NUL,SYS(DKB),USR(DK1),GIN(JOY) Character size 4, 64KB memory, GOSTOP - SEAA

#DIR DOC

Directory Structure of USR.DOC 2-Dec-82 Directory Blocks: Available= 20, Used= 1

Files-0,8locks-0,Free-980,Largest-980

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(poords/foot) (pounds/foot) (pounds/foot) inter length of first (lowest) segment of A (SIA) (feet) linear weight of second segment of A (W2A) inter linear weight of first segment of A (WIA) Enter linear weight of third segment of A (W3A) 25 Enter length of second segment of A (S2A) (feet) must specify one of the following options:
1 Horizontal load magnitude and direction
2 Horizontal displacement and direction
3 Buoy X and Coordinates.
4 None (system solution);s
other values will be solved number of segments in branch A funitless! Enier length of third segment of A (S3A) (feet) Enter weight of second sinker on A (C2A) (hips) weight of first sinter on A (CIA) (kips) Enter X-Coordinate of Point 1 (feet) Enter 2-Coordinate of Point 1 (feet) inter D-Coordinate of Point 1 (feet) inter X-Coordinate of Point 2 (feet) inter 2-Coordinate of Point 2 (feet) inter 0-Coordinate of Point 2 (feet) inter X-Coordinate of Point 3 (feet) inter 2-Coordinate of Point 3 (feet) inter 0-Coordinate of Point 3 (feet) vou hove a file of input values? - compound with equalizer - compound with spider plate Enter solution type (unitless)
1 - tout leg procedure
2 - slock leg procedure Enter type of leg (unitless) Enter 169/Fiser 11116 DOCUMENTATION 1A Enter Library name DOC 7910 Enter ne Lo 7

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Which option do you want to specify (1, 2, 3, or 4) (unitless)?

Enter magnitude of horizontal load (H) (hilopounds)

18

Enter angle from neutral direction to horizontal load vector (degrees)

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90 you want to see parameter list again?

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CCEAN FLOOR POINT I X-COORDINATE (f1)

OCEAN FLOOR POINT I Z-COORDINATE (f1)

OCEAN FLOOR POINT Z Z-COORDINATE (f1)

LINCAR VELOOR POINT Z Z-COORDINATE (f1)

LINCAR WEIGHT OF FIRST SECHENT IN BRANCH A (11)

LINCAR WEIGHT OF SECOND SECHENT IN BRANCH A (11)

LINCAR WEIGHT OF FIRST SECHENT IN BRANCH B (f1)

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Do you want to save output for elevation views?
YES
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DOCUMENTATION 1B
For each input value to be changed, enter variable number, followed by new value on the same line, with one new value per line. To terminate new input, enter '99' followed by any dummy value. To continue when display is full, type CTRL-N five times, followed by CTRL-R.
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OCEAN FLOOR POINT I Z-COORDINATE (fr)

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OCEAN FLOOR POINT Z Z-COORDINATE (fr)

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change anything?
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43 U BUOY 2-COORDIN.
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UCEAN FLOOR POINT 2 C-COORDINATE (ft)

OCEAN FLOOR POINT 3 Z-COORDINATE (ft)

NUMBER OF SECHENT IN BRANCH A (ft)

LINEAR VEIGHT OF FIRST SECHENT IN BRANCH A (ft)

LENGTH OF FIRST SINKER IN BRANCH A (ft)

LENGTH OF SECOND SINKER IN BRANCH A (ft)

LENGTH OF SECOND SINKER IN BRANCH A (ft)

LINEAR VEIGHT OF THIRD SECHENT IN BRANCH B (ft)

KER LENGTH OF FIRST SECHENT IN BRANCH B (ft)

KER LENGTH OF FIRST SECHENT IN BRANCH B (ft)

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Do you want to save output for elevation views?
NO
Do you want to save output for plan views?
NO
Do you want another run?
YES
Same input file as before?
YES
Same input file as before?
YES
Same input file as before?
YES

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won! to save parameters in a file?
           42 276 91
43 479 62
89 9
Bo you want to see parameter list again?
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For each input value to be changed, enter variable number, followed by new value on the same line, with one new value per line. To terminate new input, enter '99' followed by any dummy value. To continue when display is full, type CTRL-N five times, followed by CTRL-R.

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BUOY DISPLACEMENT DIRECTION (deg)
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HORIZONTAL LOAD DIRECTION (deg)
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43 U BUDY Z-COORDINATE (ft)
Do you want to change anything?
INPUT FILE DOCUMENTATION 1A
INPUT FILE DOC/RUNIA VAR
1 2 SOLUTION TYPE
1 1 LEG TYPE (-)
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Do you want to change the title?
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Do you want to save output for elevation views?
NO
Do you want to save output for plan views?
NO
Do you want another run?
NO
Stop
Exit

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Directory Structure of USR:DOC 2-Dec-82 Directory Blocks Available- 20, Used- 1

RUNIA VAR (3) 2-0ec-82 16 49 RUNIA ELV (7) 2-0ec-82 16 58 RUNIA PLN (1) 2-0ec-82 16 58 RUNIB VAR (3) 2-0ec-82 17 81 Files-4,8locks-14,Free-966,Largest-963

RUN MOORBS

Enter library name DDC Enter file name RUNIA Enter graph type 1 - load displacement curve 2 - elevation view 3 - plan view

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ELEVATION VIEW

output title DOCUMENTATION 1A

date 2-Dec-82 time 16 49 15

m of segments 2

xmax 553 82

xmin -522 76 ymax 1000 000

enter destred xmin
-534

enter destred ymin
-323

enter destred ymin
-322

enter destre

Do you want to modify the graph options you have just selected? NO Ė

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do you wish to plot this file again? (y or n) YES

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# ELEVATION VIEW

output title DOCUMENTATION IA dote 2-Dec-82 time 16 49 15 m of segments 2 xmin -59 070 xmox 553 82 ymin -322 75 ymox 100 00 Do you want to use your previous selection of graph options? NO

enter destred xmax

400

enter destred xmax

500

enter destred ymax

-200

enter step size for x axis

10

enter scaling factor for x axis

10

enter scaling factor for y axis

10

enter scaling factor for y axis

10

enter number of minor tick intervals per step for x axis

10

enter number of minor tick intervals per step for y axis

10

enter number of minor tick intervals per step for y axis

10

enter number of minor tick intervals per step for y axis

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enter number of minor tick intervals per step for y axis

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enter number of minor tick intervals per step for y axis

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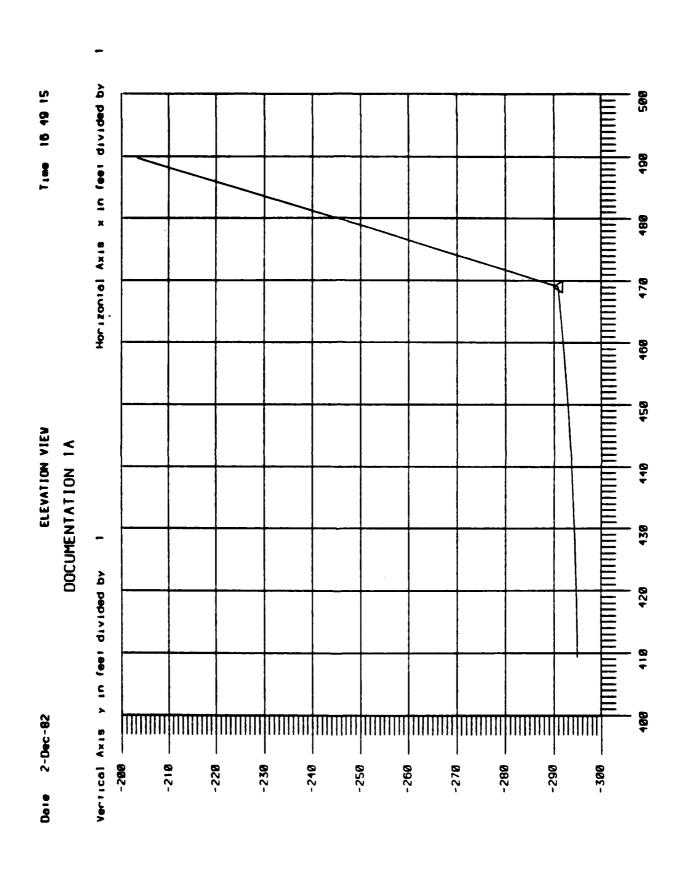
enter number of minor tick intervals per step for y axis

10

enter number of minor tick intervals per step for y axis

10

Do you want to modify the graph options you have just selected? NO



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Course - Resources - Least Areas - Westporters - Guerra Areas - Propression

do you wish to plot this file again? (y or n) YES

15 Z

ROCCOSCOL PROGRAMME PROGRAMME FOR CON-

ELEVATION VIEW

output 11116 DOCUMENTATION 1A

doie 2-Dec-82 11me 16 49 15

m of segments 2

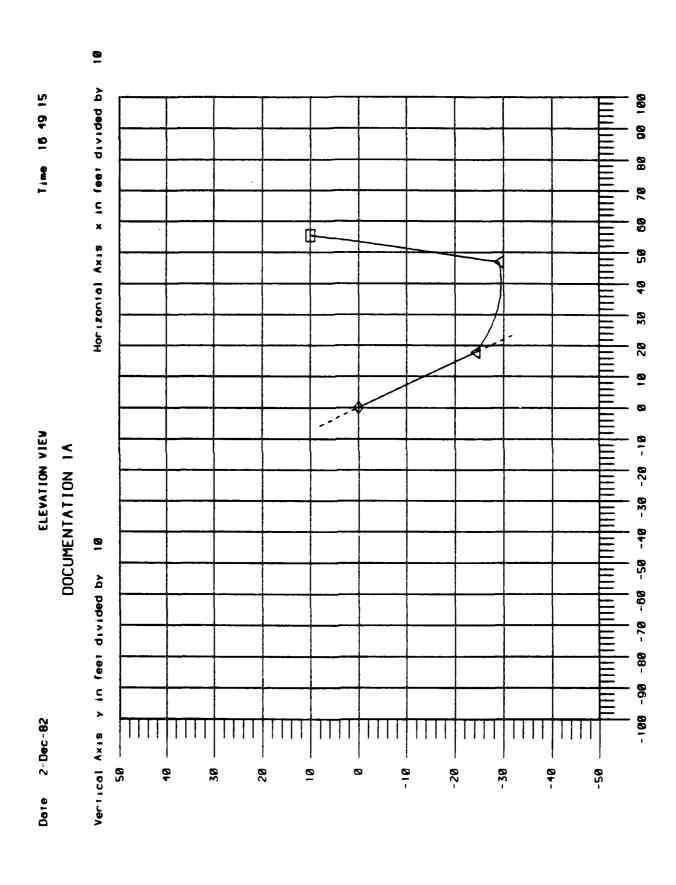
xmin -59 070 xmox 553 82

ymin -322 76 ymox 100 00

Do you want to use your previous selection of graph opilions? NO

enter desired xmin
-1000
enter desired xmax
1000
enter desired ymin
-500
enter desired ymin
-500
enter step size for x axis
100
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enter number of minor fick intervals per step for y axis
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do you want a grid? (y or n)
YES

Dc you want to modify the graph options you have just selected? NO



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do you wish to plot this file again? (y or n)
NO
do you wish to plot another file? (y or n)
YES
Enser file name
RUNIA
Enser graph type
1 = load displacement curve
2 = elevation view
3 = plan view

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PLAN VIEW

output title DOCUMENTATION 1A
dote 2-Dec-82 time 17 26:35
# of segments 2
xmin 0 00000 xmox 479 63

Do you want to use your previous selection of graph options? NO

enter destred xmin

enter destred xmax

277

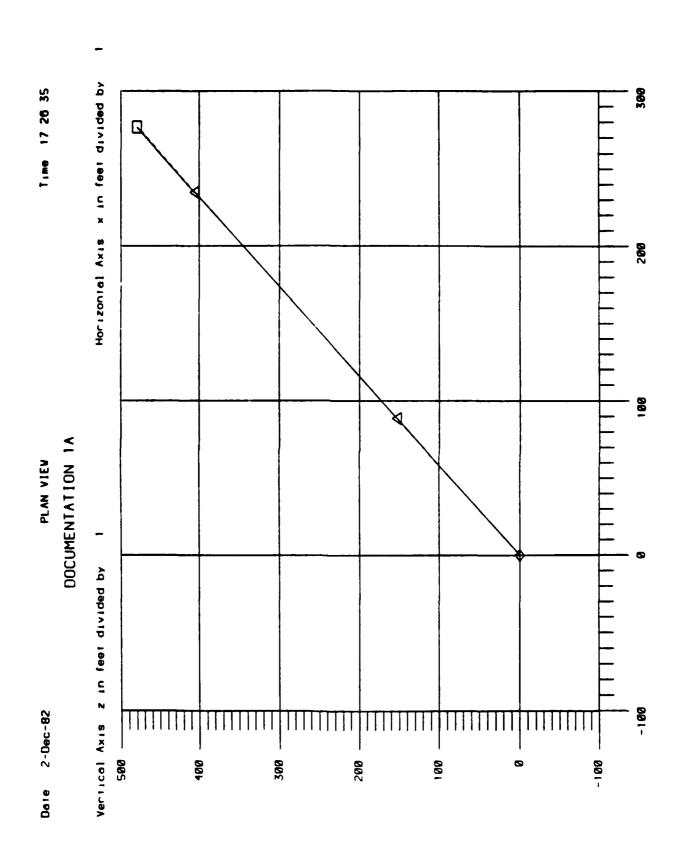
enter destred ymin

enter step size for x axis

enter scaling factor for x axis

enter scaling factor for y axis

Bo you want to modify the graph options you have just selected? NO  $\,$ 



D

do you wish to plot this file again? (y or n)
NO
do you wish to plot another file? (y or n)
NO
Stop
Exit
#DIR DOC

Directory Structure of USR DOC 2-Dec-82 Directory Blocks: Available= 20, Used= 1

RUNIA VAR [3] 2-Dec-82 16 49 RUNIA ELV [7] 2-Dec-82 16 58 RUNIA PLN [1] 2-Dec-82 16 58 RUNIB VAR [3] 2-Dec-82 17 01 Files-4, Blocks-14, Free-966, Largest-966

#RUN MOOR@4

Enter librory name DOC Enter name of leg/riser file. RUNIA Do you want to see parameter list again? NO

Enter minimum value of H (hips)

Enter maximum value of H (hips)
500

Enter value of H for reference point
35

Enter number of points to be plotted
251

... [3]

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JUST COMPLETED POINT 1888
JUST COMPLETED POINT 2888
Do you want to compute another curve?
NO
Stop
Ex.1
#DIR DOC

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Directory Structure of USR DOC 2-Dec-82 Directory Blocks Available= 20, Used= 1

RUNIA KAR [3] 2-0ec-82 16 49
RUNIA ELV [7] 2-0ec-82 16 50
RUNIA PLN [1] 2-0ec-82 16 50
RUNIB VAR [3] 2-0ec-82 17 01
RUNIA LOC [21] 2-0ec-82 17 01

Files-5,8locks-35,Free-945,Lorgest-944

MRUN MOORBS

Enter library name
DOC
Enter file name
RUNIA
Enter groph type
I = load displacement curve
2 = elevation view
3 - plan view

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LOAD DEFLECTION CURVE

output fille DOCUMENTATION IA

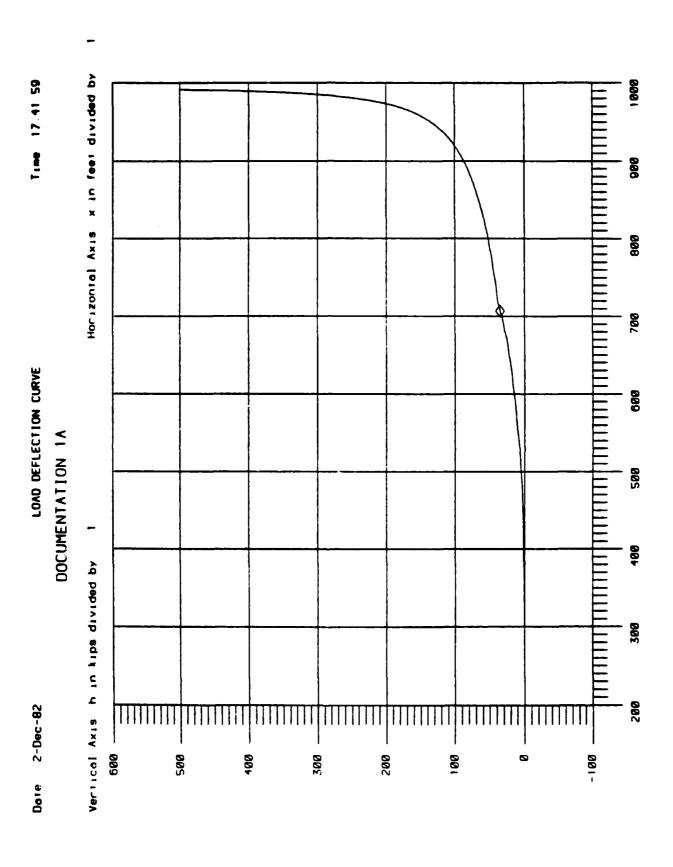
dote 2-Dec-82 time 17 41 59

if of segments 1 xmox 991 44

xmin 8 86888 ymox 588 88

enier desired xmax
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enier desired xmax
992
enier desired ymax
-1
enier step size for x axis
100
enier scaling factor for x axis
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enier scaling factor for y axis
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enier number of minor lick intervals per step for x axis
100
enier number of minor lick intervals per step for y axis
10
do you want a grid? (y or n)
YES

Do you want to modify the graph options you have just selected? NO



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do you wish to plot this file again? (y or n)
NO
do you wish to plot another file? (y or n)
NO
Stop
Exit

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LENCTH OF FIRST SECHENT IN BRANCH A (ft)
LINEAR VEIGHT OF FIRST SECHENT IN BRANCH A (ft)
LENCTH OF FIRST SINKER IN BRANCH A (ft)
LENCTH OF SECOND SECHENT IN BRANCH A (ft)
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LENCTH OF SECHENT ABOVE JUNCTION (ft)
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BUOY DISPLACEMENT DIRECTION (deg)
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HORIZONTAL LOAD DIRECTION (deg)
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BUOY Z-COORDINATE (ft)
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                                    SOLUTION TYPE (-)
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Enter library name
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Enter file name
RUN2A
Enter graph type
I - load displacement curve
2 - elevation view
3 - plan view

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ELEVATION VIEW

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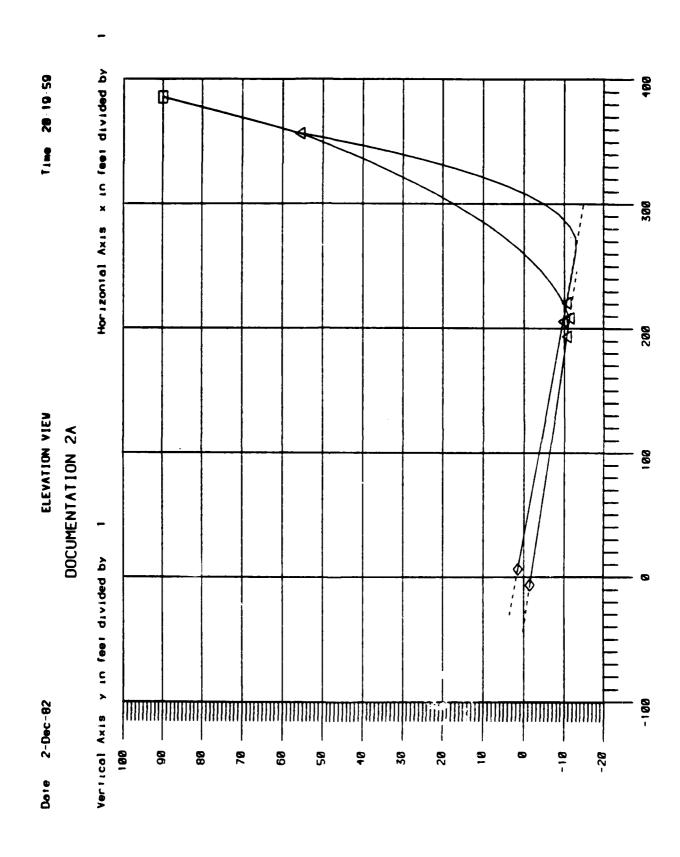
enter destred xmin

45
enter destred xmax
386
enter destred ymin

-16
enter step size for x axis
100
enter scaling factor for x axis
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enter scaling factor for y axis
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enter scaling factor for y axis
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enter number of minor lick intervals per step for x axis
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enter number of minor lick intervals per step for y axis
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enter number of minor lick intervals per step for y axis

Do you want to modify the graph options you have just selected? NO Ü

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do you wish to plot this file again? (y or n)

do you wish to plot another file? (y or n)

Y
Enter file name
RUNZA
Enter graph type
1 - load displacement curve
2 - elevation view
3 - plan view
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PLAN VIEW

output title DOCUMENTATION 2A

date 2-Dec-82 time 20 19 59

m of segments 4

xmin 0 000000 xmox 352 51

ymin -15 000 ymox 156 40

Do you want to use your previous selection of graph options? NO

enter destred xmin

enter destred xmax
353

enter destred ymin

-16

enter destred ymax
157

enter step size for x axis
100

enter scaling factor for x axis
100

enter scaling factor for y axis
100

enter scaling factor for y axis
100

enter number of minor tick intervals per step for y axis
100

enter number of minor tick intervals per step for y axis
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enter number of minor tick intervals per step for y axis
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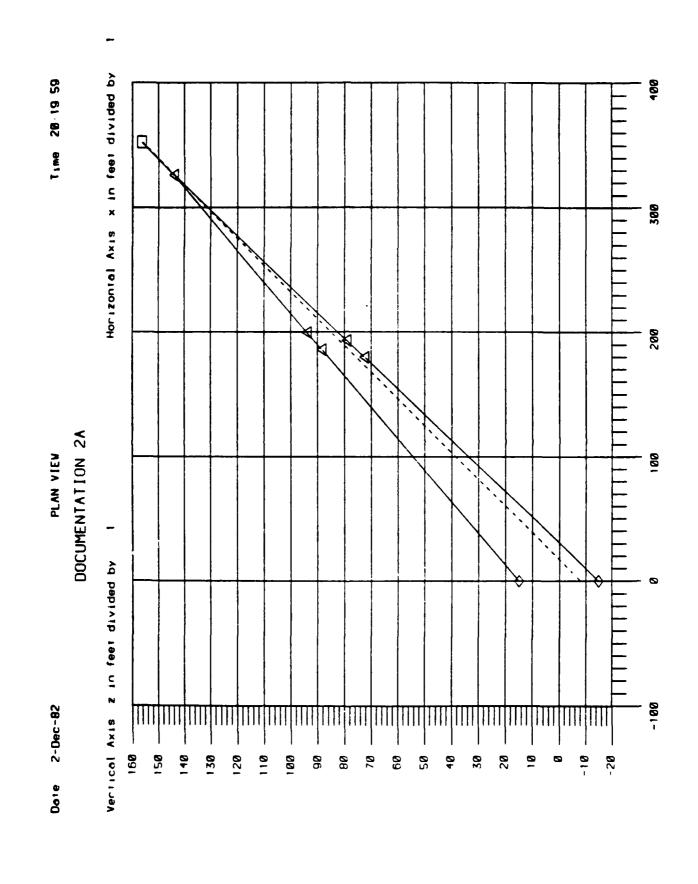
enter number of minor tick intervals per step for y axis
100

enter number of minor tick intervals per step for y axis
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enter number of minor tick intervals per step for y axis
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enter number of minor tick intervals per step for y axis

Do you want to modify the graph options you have just selected? NO



Enter minimum volue of H (hips)

Enter moximum value of H (hips)
100

Enter volue of H for reference point
20

Enter number of points to be plotted
51

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Enter library name
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RUN2A
Enter graph type
1 - load displacement curve
2 - elevation view
3 - plan view

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LOAD DEFLECTION CURVE

output title DOCUMENTATION 2A

date 2-Dec-82 time 20 41 6

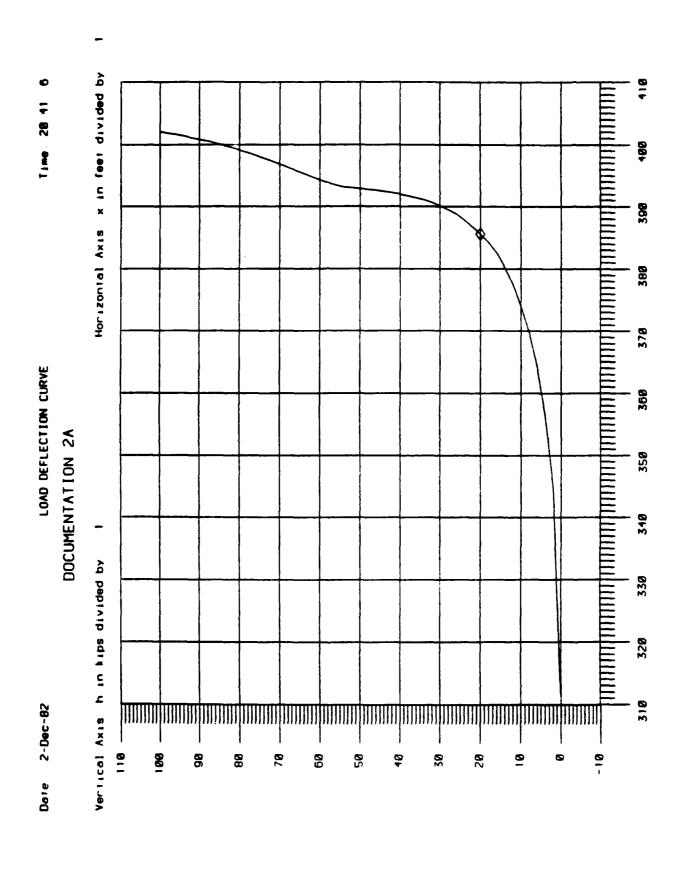
m of segments t 1

xmin 311 50 xmox 402 09

ymin 0 000000 ymox 100 00

enter destred xmin
311
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403
enter destred ymin
-1
enter step size for x axis
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enter scaling factor for x axis
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Do you want to modify the graph options you have just selected? NO



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UCEAN FLOOR POINT 3 D-COORDINATE (F)

NUMBER OF SECHENTS IN BRANCH A (-)

LENGTH OF FIRST SECHENT IN BRANCH A (INDS)

LENGTH OF SECOND SECHENT IN BRANCH A (INDS)

LENGTH OF THIRD SECHENT IN BRANCH A (INDS)

LENGTH OF FIRST SECHENT IN BRANCH A (INDS)

LINEAR WEIGHT OF FIRST SECHENT IN BRANCH B (INDS)

LENGTH OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF FIRST SINKER IN BRANCH B (INDS)

LENGTH OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF THIRD SECHENT IN BRANCH B (INDS)

LINEAR WEIGHT OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF THIRD SECHENT IN BRANCH B (INDS)

LINEAR WEIGHT OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF THIRD SECHENT IN BRANCH B (INDS)

LENGTH OF COURTIER OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF COURTIER OF SECOND SECHENT IN BRANCH B (INDS)

LENGTH OF COURTIER OR SPIDER PLATE (F)

WEIGHT OF COURTIER OR SPIDER PLATE (F)
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BUOY DISPLACEMENT DIRECTION (deg)
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HORIZONTAL LOAD DIRECTION (deg.)
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BUOY Z-COORDINATE (ft)
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ORIGIN-10-BUOY DISTANCE (HORIZONTAL) (ft)
BUOY DISPLACEMENT DIRECTION (deg)
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NO
Do you want to save parameters in a file?
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Enter name of output file
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ANCHAR SEPARATION (17)

OCEAN FLOOR POINT 1 2-COORDINATE (fr)

OCEAN FLOOR POINT 1 2-COORDINATE (fr)

OCEAN FLOOR POINT 2 2-COORDINATE (fr)

OCEAN FLOOR POINT 2 2-COORDINATE (fr)

OCEAN FLOOR POINT 3 2-COORDINATE (fr)

LINEAR VEIGHT OF FIRST SECHENT IN BRANCH A (fr)

LINEAR VEIGHT OF SECOND SECHENT IN BRANCH A (fr)

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BUOY Z-COORDINATE (ft)
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F.10 DOC/RUN3A	4 5 53-55	4,5 C2 53+55 B	OCEAN SURFACE Load Direction Morizontal Loa 00 Projected Excu 00 True Excursion 00	Bortom L 5	8	191 88 -11 63 81 52	4 -6 31 43 -6 67 11 8 12 18 16
Revised to Fille	BRANCH 2,3 VI C1 S2 V2	2,3 1 C1 S2 BRA	10 -45 882-8 88 98 98 18 88 15 88 88 88 88 88 88 88 88 88 88 88 88 88	Chain Cailed on Y Coordinate Tension 		178 49 -10 37 74 79	-2 54 -2 55 -0 55 -0 55 12 32 12 21
ON 3A	10	-	OCEAN BOTTOM Floor Slope Floor Slope Point Pl Point P2 Point P3 Anchor B Origin	ol Angle C - Ce T - Ce	26 70 -2 54 215 80	8 88 -1 58 88 -15	-2 54 -2 54 -0 59 -0 58 1 3 32 12 99
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INPUT	Angles Distances Units Linear We	Anchor Separation Segments in Branch Angle to Bottom Length of Segment 1 Linear Weight of Segment Weight of Sinker 1 Length of Segment 2	Linear Weight of Segment 2 Veight of Sinker 2 Siari Length of Segment 3 Linear Weight of Segment 3 Friction Coefficient Verght of Equalizer/Spider Length of Segment 4 Linear Weight of Segment 4 UNKNOWN INPUTS	- Floor Horizontal Angle - Horizontal Force - Catenary Horizontal Angle	22 35 -3 12 228 70 7 84	8 88 1 58 15 88	-3 12 -3 12 -0 51 -0 48 9 32 8 91

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Enter Library name
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Enter file name
RUN3A
Enter graph type
1 - load displacement curve
2 - elevation view
3 - plan view

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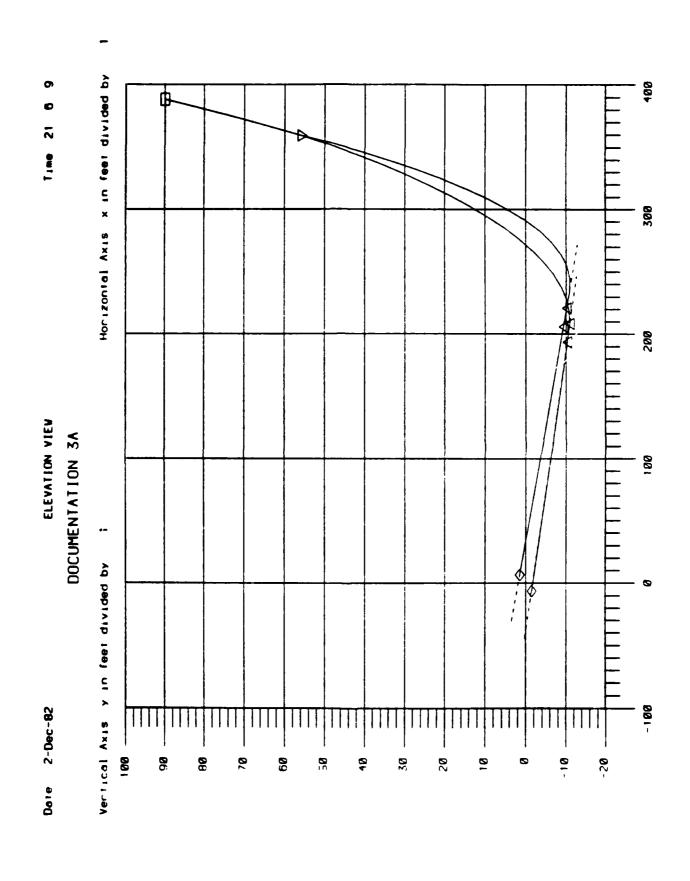
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ELEVATION VIEW output 1:116 DOCUMENTATION 3A dote 2-Dec-82 1:me 21 6 9 m of segments 5 xmox 388 29 xmox 90 000 ymox 90 000

enter destred xmax

90
enter destred xmax
389
enter destred ymin
-13
enter step size for x axis
100
enter step size for y axis
10
enter step size for y axis
10
enter scaling factor for y axis
10
enter number of minor tick intervals per step for y axis
10
enter number of minor tick intervals per step for y axis
10
enter number of minor tick intervals per step for y axis
10
do you want a grid? (y or n)
YES

Do you want to modify the graph options you have just selected? NO



do you wish to plot this file again? (y or n)
NO
Jo you wish to plot another file? (y or n)
YFS
Enter file name
RUN3A
Enter graph type
1 - load displacement curve
2 - elevation view
3 - plan view

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PLAN VIEW

output 1:11e DOCUMENTATION 3A

dote 2-Dec-82 1:me 2: 6 9

# of segments 4

xmin 0 000000 xmax 353 06

ymin -15 000 ymax 16: 63

Do you want to use your previous selection of graph options? NO

enter destred xmin

enter destred xmax
354

enter destred ymin
-16

enter destred ymin
-16

enter step size for x axis
enter scaling factor for x axis
enter scaling factor for y axis
10

enter scaling factor for y axis
10

enter number of minor tick intervals per step for x axis
10

enter number of minor tick intervals per step for y axis
10

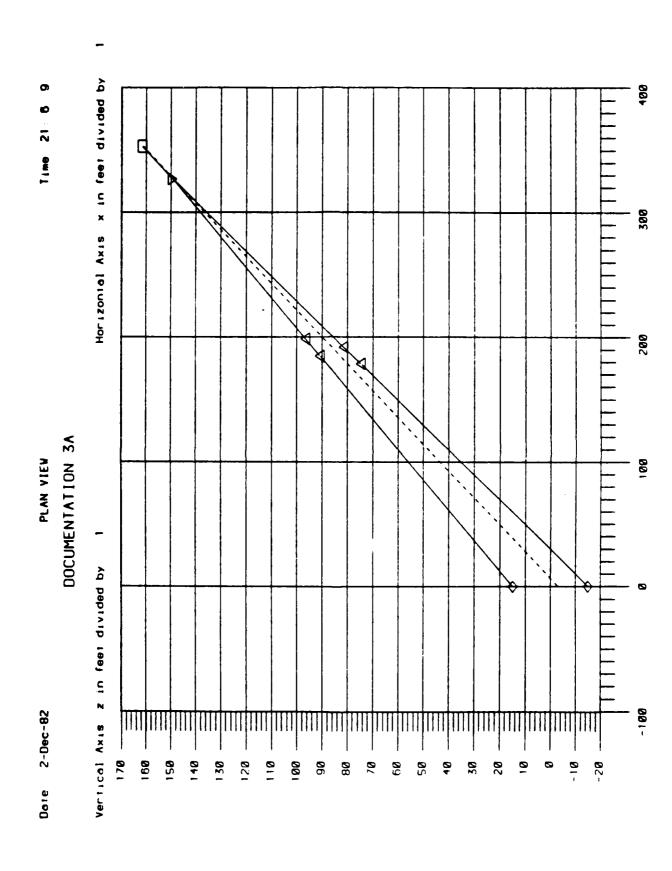
enter number of minor tick intervals per step for y axis
10

enter number of minor tick intervals per step for y axis
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enter number of minor tick intervals per step for y axis
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do you want a grid? (y or n)
YES

Do you want to modify the graph options you have just selected? NO



Enter minimum value of H (hips)

(in the maximum value of H (hips)

50

Enter value of H for reference point

20

Enter number of points to be plotted

D

Enter library name
COC
Enter file name
RUN3A
Enter graph type
1 - load displacement curve
2 - elevation view
3 - plan view

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LOAD DEFLECTION CURVE

output fille DOCUMENTATION 3A

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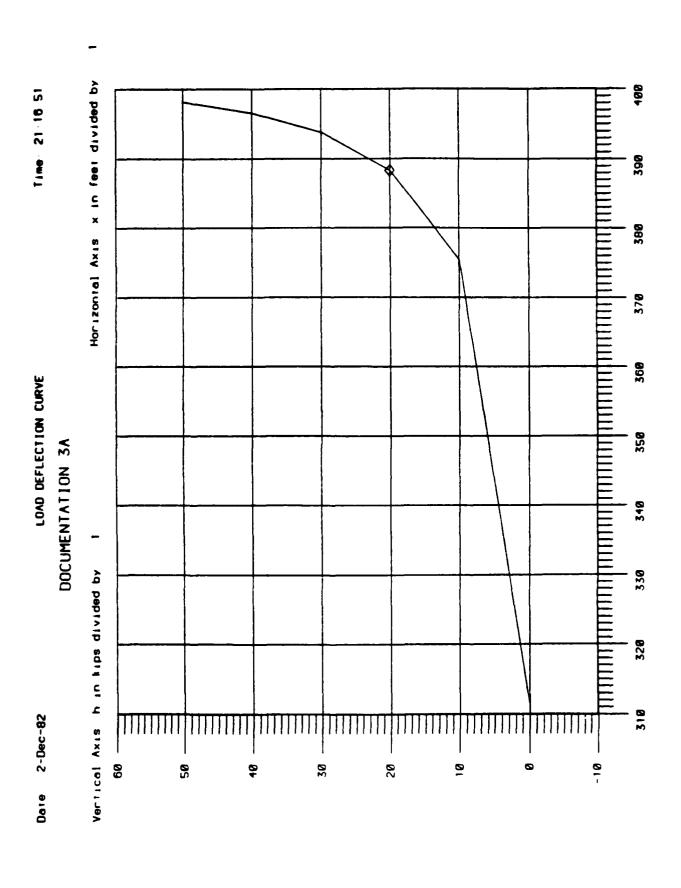
# of segments 1

xmin 311 50 xmox 398 20

ymin 0 000000 ymox 50 000

enter desired xmin
310
310
310
enter desired xmox
399
enter desired ymin
-1
enter step size for x oxis
10
enter scaling factor for x oxis
10
enter scaling factor for y oxis
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enter scaling factor for y oxis
10
enter number of minor tick intervals per step for x oxis
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Do you want to modify the graph options you have just selected? NO



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OCEAN FLOOR POINT I 2-COORDINATE (ft)

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BUDY DISPLACEMENT DIRECTION (deg)
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BUOY Z-COORDINATE (ft)
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DOCUMENTATION 38
FILE DOC/RUN3A VAR
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BUDY DISPLACEMENT DIRECTION (deg)
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DOCUMENTATION 3C

FILE DOC/RUNSA VAR
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Dere 2-Dec-92	NPUT Original Input From Angles - D Distances - F Units Linear Velghts - R Forces - K	Type compound - equalizer Anchor Separation Segments in Branch Angle to Bottom Length of Segment t Linear Veight of Segment 1 Length of Segment 2 Linear Veight of Segment 2 Linear Veight of Segment 2 Veight of Sinker 2	Signi Lengin of Segment 3 Stringer Weight of Segment 3 W Friction Coefficient Weight of Segment 4 Stringer Weight of Segment 4 W Linear WOUNKNOWN INPUTS	4 20 - Final Slippage SS HA - Floor Horizonial Angle H - Horizonial Force A - Catenary Horizonial Angle1A2A3A4	HA 22 35 VA -3 12 C L 228 72 H 7 84	X 0 00 184 70 -9 37 2 15 00 95 95 95 12 -3 12 -3 12 -3 12 V -0 51 -0 48 -0 44 17 9 32 8 91 8 09

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Enter angle from neutral direction to horizontal load vector (degrees)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Enter magnitude of horizontal load (H) (hilopounds)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Specify two of the remaining variables to then number of segments or load direction as unknown by entering the code U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Enter Linear weight of second segment of A (W2A)
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                                                                                                                                                                                                                                                                                              Enter X-Coordinate of Point 1 (feet)
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                                                          Do you have a file of input values?
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DOCUMENIÄTION 4A
Enter solution 17pe (unitless)
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2 - slack leg procedure
Enter library name
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Enter horizontal distance from origin to buoy (feet) U U Do you want to see parameter list again? YES

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40 U ORIGIN-TO-BUDY DISTANCE (HORIZONTAL) (ft)
Do you want to change anything?
NO
Do you want to save parameters in a file?
YES
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RUN4A
TITLE DOCUMENTATION 4A INPUT FILE NONE
                                                                                              $18
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SOLUTION BEGUN AT 21 58 58 Enter 140 initial guesses for H

Enter two initial guesses for 1 SOLUTION COMPLETED AT 21 51 16

m File NONE  Degrees Feet Pounds/Foot Kilopounds Kilopounds Kilopounds  I 2 50 8 22 1 8 22 1 70 2 50 8 22 1 70 1 70 2 50 8 22 1 70 2 50 8 22 1 70 2 50 8 22 1 70 2 50 8 70 8 70 8 70 8 8 70 8 8 70 8 8 8 70 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	m File NONE  Degrees Feer Feer Founds/Foot Kilopounds Kilopounds Kilopounds  A	DOCUMENTATI  Angles  Angles  Angles  Distances  Linear Weights - Degrees  Distances  Linear Weights - Feet  Attribopounds  Forces  Simple  To Segment 1  To Segment 1  To Segment 2  To Segment 2  To Segment 2  To Segment 3  To Segment 4  To Segment 5  To Segment 6  To Segment 6  To Segment 6  To Segment 7  To Segment 7  To Segment 7  To Segment 6  To Segment 7  To Segment 7  To Segment 6  To Segment 6  To Segment 7  To Segment 7  To Segment 7  To Segment 6  To Segment 7  To Segment 6  To Segment 7  To	Revised to File DOC/RUN4A BRANCH A x1 2,3 4,5	x1 2,3 4,5 53 4,5 51 W1	1 100000	Buoy Excursion  cal Angle C - Chain Coiled on Boilom L - Length Along Boilom e Y - Y Coordinate irce T - Tension18283848586878	153 37 27 80 -265 64
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Enter Library name
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RUN4A
Enter graph type
1 = load displacement curve
2 = plan view
3 = plan view

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ELEVATION VIEW

output title DOCUMENTATION 4A

date 2-Dec-82 time 21 51 16

if of segments 2

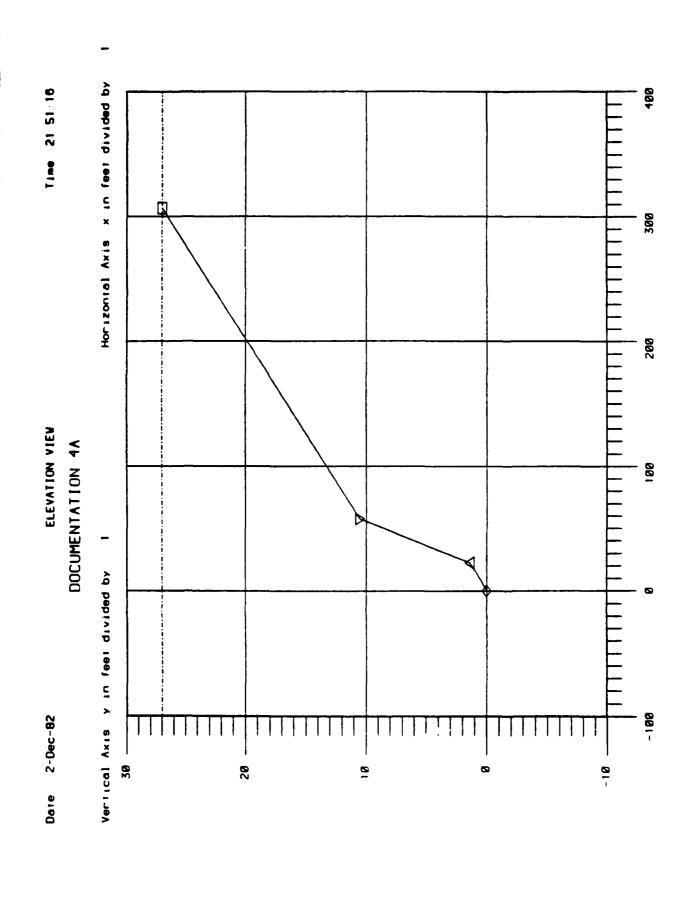
xmin -38 858 xmax 306 74

ymin 8 86868 ymax 27 866

enter destred xmin

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-1
enter step size for x axis
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Do you want to modify the graph options you have just selected? NO  $\,$ 



do you wish to plot this file again? (y or n) NO do you wish to plot another file? (y or n) YES Entar file name RUNAA Enter graph type | - load displacement curve | - load displacement again | - load displacement curve | - load displacement again | - load displacement curve | - load displacement again | - load displacement curve | - load displacement | - load displacement curve | - load disp

Do you want to use your previous selection of graph options? NO

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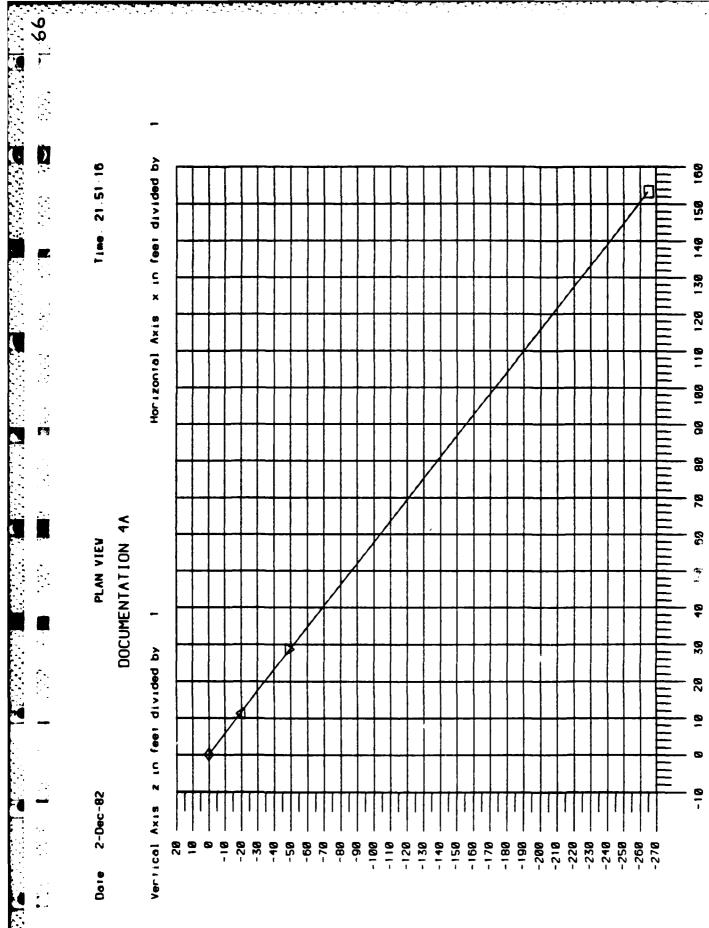
enter destred xmox
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enter step size for x oxis
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enter scaling factor for x oxis
10
enter scaling factor for y oxis
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Do you want to modify the graph options you have just selected? NO

enter number of minor tick intervals per step for y axis

do vou want a grid? (y or n)





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CCEAN FLOOR POINT I X-COORDINATE (fr)
CCEAN FLOOR POINT I X-COORDINATE (fr)
CCEAN FLOOR POINT I Z-COORDINATE (fr)
CCEAN FLOOR POINT Z X-COORDINATE (fr)
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CENTRO OF SECOND SECHENT IN BRANCH B (fr)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              396 74 ORIGIN-TO-BUDY DISTANCE (HORIZONTAL) (ft)
Do you want to change anything?
NO
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DOCUMENTATION 48
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SOLUTION BEGUN AT 21 58 34
Enter initial guess for A1
5.
Enter initial guess for S3
300
SOLUTION COMPLETED AT 21 58 54

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PUT   Original Input From File DOC/RUM4 NR   Revised to File DOC/RUM4 NR			5				CLIME	ATN:	CUMENTATION	4	a								
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OCEAN FLOOR POINT 1 Z-COORDINATE (fr)

OCEAN FLOOR POINT 2 Z-COORDINATE (fr)

OCEAN FLOOR POINT 2 Z-COORDINATE (fr)

OCEAN FLOOR POINT 3 Z-COORDINATE (fr)

NUMBER OF SECHENT IN BRANCH A (fr)

LINEAR WEIGHT OF FIRST SECHENT IN BRANCH A (fr)

LINEAR WEIGHT OF FIRST SECHENT IN BRANCH A (fr)

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HORIZONTAL LOAD DIRECTION (deg.)
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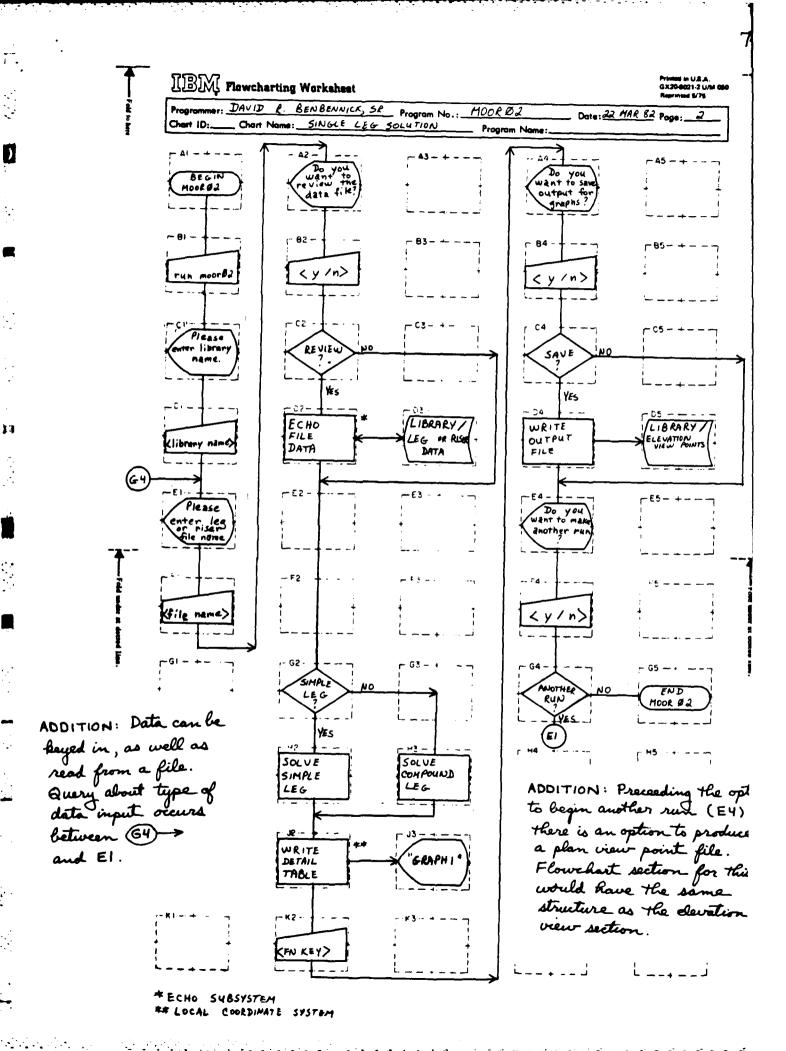
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IBM Flowcharting Worksheet BENBENNICK, SR. Program No .: DAVID MOOR 05 Date: 22 MAC \$2 Pope: Chart Name: GRAPHIC Chart ID: OUTPUT LIBRARY/ SCAN BEGIN ADJUTS DATA MOORES FILE ADDITION: User is gueried (Flot type) whether previous graph parameters are to be DISPLAY FILE XMIX, XMAK, run moor \$5 SUMMARY YMIN, YMAX used. This question is asked after the file Summary display (B3). Please DEFINE PLOT BOUNDARIES, enter librar TICKS, G-RIDS PLOT GRAPH (library nam Please enter name of points file. (FN KEY) ADDITION: User a gueried for type of graph after giving file name (F2). To Thus the file name (file name this till again? extension is not typed by the user. - G3 -< y/n> REPLOT MOOR #5 \*LIKE GRAPH2

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